

Pedestal Kit Installation Guide for HP Integrity rx2800 i2 and HP Proliant DL380 G6 & DL385 G6 Servers

HP Part Number: AM251-9000A
Published: January 2010
Edition: 1



© Copyright 2010 Hewlett-Packard Development Company, L.P.

Legal Notices

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Table of Contents

| | |
|--|----|
| Abstract..... | 5 |
| Intended audience..... | 5 |
| 1 Important warnings..... | 7 |
| Electricity..... | 7 |
| Electrical grounding..... | 7 |
| Static electricity..... | 7 |
| Potential metallic particulate contamination..... | 7 |
| 2 Installing the server into the pedestal kit..... | 9 |
| Required tools..... | 9 |
| Remove the rails from the server..... | 9 |
| Attach the pedestal kit top and bottom..... | 10 |
| Attach the bezel cover..... | 12 |
| Attach the pedestal kit side pieces..... | 13 |
| Attach the pedestal feet..... | 15 |
| 3 Accessing internal components..... | 17 |
| 4 Removing the server from the pedestal kit..... | 21 |
| Required tools..... | 21 |
| Power off the server and remove cables..... | 21 |
| Removing the pedestal kit..... | 21 |
| 5 Support and other resources..... | 25 |
| Publishing history..... | 25 |
| Related information..... | 25 |
| Typographic conventions..... | 25 |
| Index..... | 27 |

List of Figures

| | | |
|-----|--|----|
| 2-1 | Removing the rails from the server..... | 9 |
| 2-2 | Front of server..... | 10 |
| 2-3 | Installing the pedestal bottom piece..... | 11 |
| 2-4 | Attaching the bezel Cover..... | 12 |
| 2-5 | Attaching the pedestal kit side piece..... | 13 |
| 2-6 | Thumb screw locations..... | 14 |
| 2-7 | Attaching the feet..... | 15 |
| 3-1 | Removing the pedestal kit feet..... | 17 |
| 3-2 | Thumbscrew locations..... | 18 |
| 3-3 | Removing the side piece..... | 18 |
| 3-4 | Access panel removal..... | 19 |
| 4-1 | Removing the pedestal kit feet..... | 21 |
| 4-2 | Thumbscrew locations..... | 22 |
| 4-3 | Removing the side piece..... | 22 |
| 4-4 | Removing the bezel cover..... | 23 |
| 4-5 | Removing the pedestal top piece..... | 23 |

Abstract

This document describes how to convert the HP Integrity rx2800 i2 and HP Proliant DL380 G6 & DL385 G6 servers from a rack system to a pedestal system.

The document printing date and part number indicate the document's current edition. The printing date changes when a new edition is printed. Minor changes may be made at reprint without changing the printing date. The document part number also changes when extensive changes are made.

Document updates may be issued between editions to correct errors or document product changes. To ensure that you receive the updated or new editions, subscribe to the appropriate product support service. See your HP sales representative for details.

The latest version of this document can be found online at:

http://www.hp.com/go/Integrity_Servers-docs and http://www.hp.com/go/Proliant_Servers-docs

Intended audience

This document is intended to provide technical product and support information for authorized service providers, customer system administrators, and HP support personnel.

1 Important warnings

Electricity

Electrical grounding



WARNING!

For your safety always connect the equipment to a grounded wall outlet. Always use a power cord with a properly grounded plug, such as the one provided with the equipment, or one in compliance with your national safety standards. This equipment can be disconnected from the power by removing the power cord from the power outlet. This means the equipment must be located close to an easily accessible power outlet.

Static electricity



CAUTION:

Static electricity can damage electronic components. Turn off all equipment when removing or adding components. Don't let your clothes touch the accessory. To equalize the static electricity, rest the accessory bag on top of the system while you are removing the accessory from the bag. Handle the accessory as little as possible and with care.

Potential metallic particulate contamination

Metallic particulates can be especially harmful around electronic equipment. This type of contamination may enter the data center environment from a variety of sources, including, but not limited to, raised floor tiles, worn air conditioning parts, heating ducts, rotor brushes in vacuum cleaners or printer component wear. Because metallic particulates conduct electricity, they have an increased potential for creating short circuits in electronic equipment. This problem is exaggerated by the increasingly dense circuitry of electronic equipment.

Over time, very fine whiskers of pure metal can form on electroplated zinc, cadmium, or tin surfaces. If these whiskers are disturbed, they may break off and become airborne, possibly causing failures or operational interruptions. For over 50 years, the electronics industry has been aware of the relatively rare, but possible, threat posed by metallic particulate contamination. During recent years, a growing concern has developed in computer rooms where these conductive contaminants are formed on the bottom of some raised floor tiles.

Although this problem is relatively rare, it may be an issue within your computer room. Since metallic contamination can cause permanent or intermittent failures on your electronic equipment, Hewlett-Packard strongly recommends that your site be evaluated for metallic particulate contamination before installation of electronic equipment.

2 Installing the server into the pedestal kit

Required tools

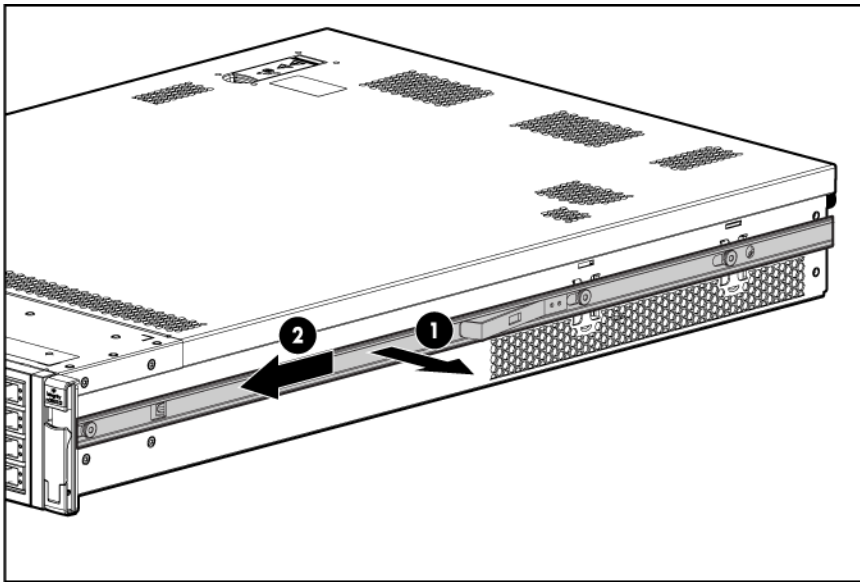
There are no tools required for installing the pedestal kit.

Remove the rails from the server

If your server has rails when you receive it, you need to remove the rails before mounting it in the pedestal kit. To remove the component:

1. Slightly pull the rail lock away from the rail to unlock the rail. See [Figure 2-1 \(page 9\)](#).
2. Slide the rail toward the front of the server to disengage the rail from the posts on the server.
3. Repeat these steps for the rail on the other side of the server.

Figure 2-1 Removing the rails from the server



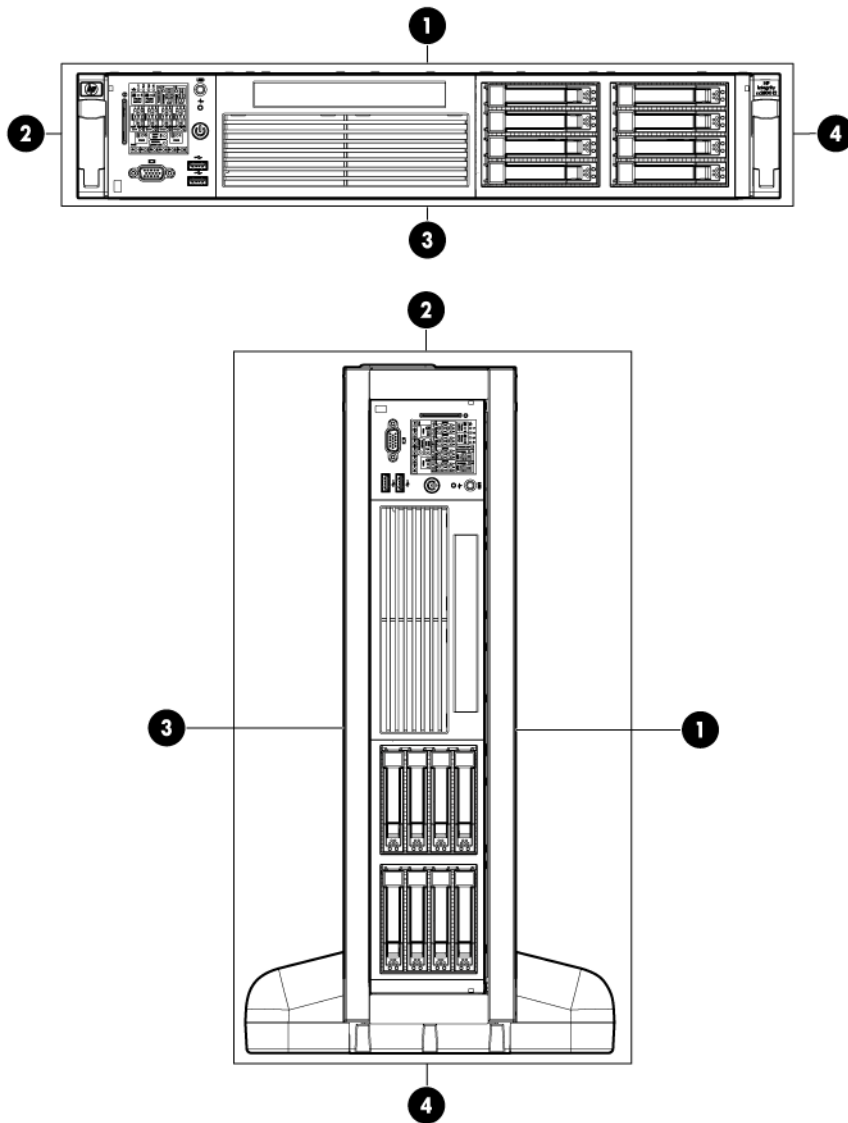
Attach the pedestal kit top and bottom



IMPORTANT:

In this document the server top, bottom, right and left **always** refer to the server as faced from the front with the server in a horizontal orientation. The pedestal kit components are referred to by their final position with the server in a vertical orientation. For example, the pedestal kit bottom attaches to the server left side. See Figure 2-2 (page 10) for the server and pedestal orientations.

Figure 2-2 Front of server



1 Server top/pedestal right

2 Server left/pedestal top

3 Server bottom/pedestal left

4 Server right/pedestal bottom

The pedestal kit bottom attaches to the right side of the server when the server is in the horizontal position. The pedestal kit top attaches to the left side of the server when in the server is in the horizontal position. The pedestal bottom may be distinguished from the pedestal top by the pedestal feet slots.



NOTE: The bottom piece of the pedestal is taller than the server, so try to position the server so the right side (in the horizontal position) of the server hangs off the edge of the work surface by a few inches to allow the bottom piece to be attached to the server chassis. If that is not possible, then raise up the server approximately 3 inches from the work surface to allow the pedestal kit bottom piece to be attached to the server left side.

To attach the components.

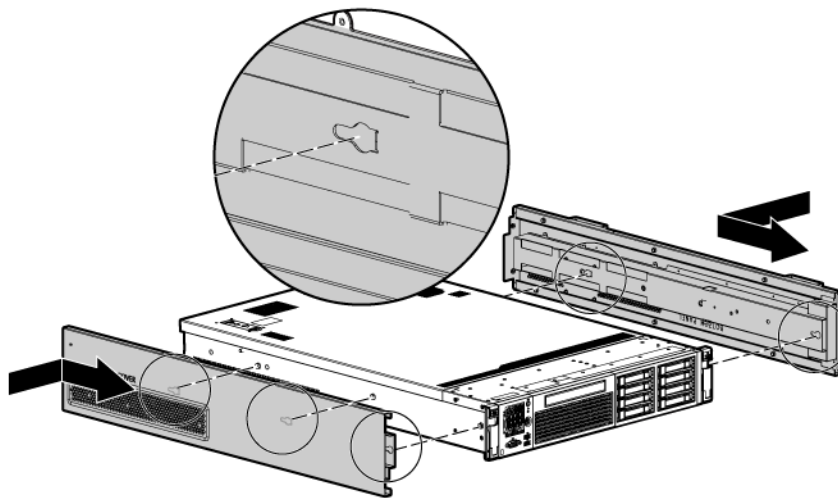
1. Align the holes in the pedestal component with the posts on the server. See [Figure 2-3](#) (page 11).



NOTE: One of the holes in the pedestal component contains the locking mechanism. This makes the hole appear partially blocked.

2. Hold the pedestal component flush against the server.
3. Slide the pedestal component forward until it locks into place

Figure 2-3 Installing the pedestal bottom piece



4. Stand the server up on the bottom piece of the pedestal kit that was just installed so the server is in the vertical position.



CAUTION: The server is heavy. Be careful when lifting it to the vertical position.

Without the feet installed, the server may tip over easily. Be careful when working near the server to avoid tipping it over.

5. Align the holes in the pedestal top piece with the posts on the server.



NOTE: One of the holes in the pedestal component contains the locking mechanism. This makes the hole appear partially blocked.

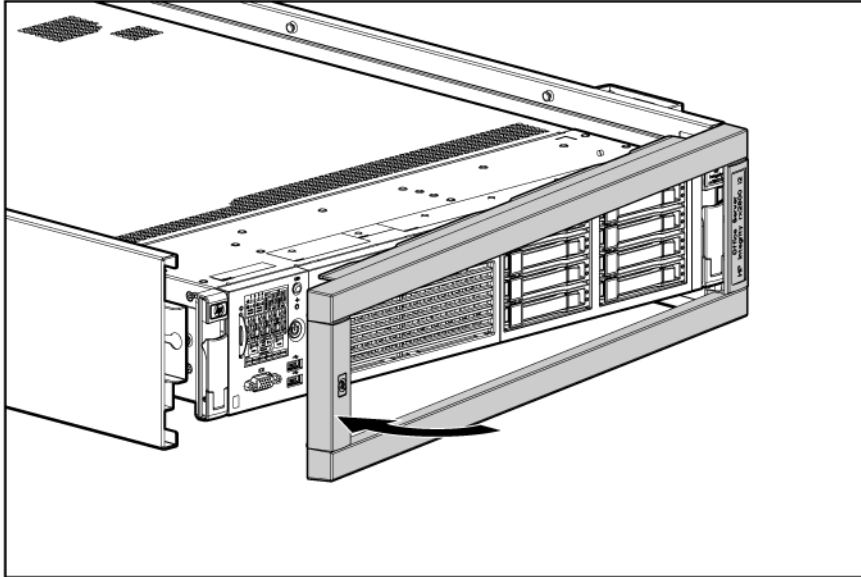
6. Hold the pedestal top piece flush against the server.
7. Slide the pedestal top piece forward until it locks into place.
8. The top and bottom pedestal kit pieces are now in place.

Attach the bezel cover

To attach the bezel cover:

1. Attach the bezel cover to the front of the server starting from the bottom of the pedestal kit.
2. Push the bezel cover into place against the pedestal kit top piece until the tabs on the bezel cover snap into place.

Figure 2-4 Attaching the bezel Cover



Attach the pedestal kit side pieces

The pedestal kit right side piece attaches to the top of the server. The top cover of the server might have ventilation holes in it to allow for proper air flow and cooling. The right side piece of the pedestal kit also has ventilation holes in it to allow for the proper cooling and air flow. Follow these steps to attach the pedestal kit right side piece.

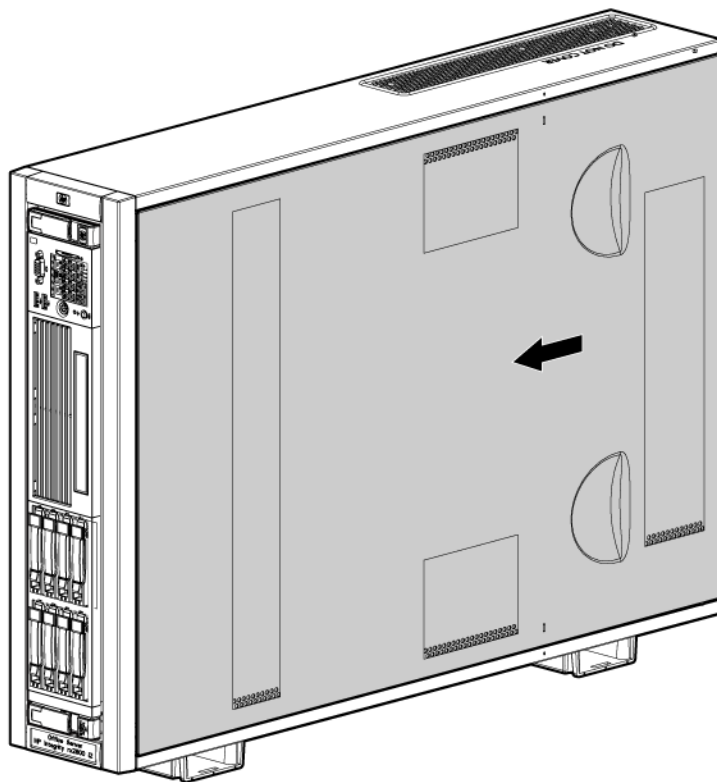


WARNING! The ventilation holes in the pedestal kit right side piece **must** be matched up with the ventilation holes on the top cover of the HP Integrity rx2800 i2 server to allow for proper cooling and air flow. Failure to heed this warning will cause the server to shut down with an overtemp condition.

To attach the component:

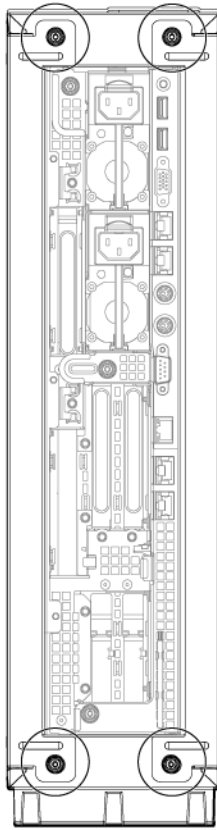
1. Align the posts on the pedestal kit right side piece with the slots in the pedestal kit top and bottom.
2. Hold the pedestal side flush against the server and slide it toward the front of the server.

Figure 2-5 Attaching the pedestal kit side piece



3. Secure the pedestal side by hand tightening the captive thumb screws on the rear of the server.

Figure 2-6 Thumb screw locations

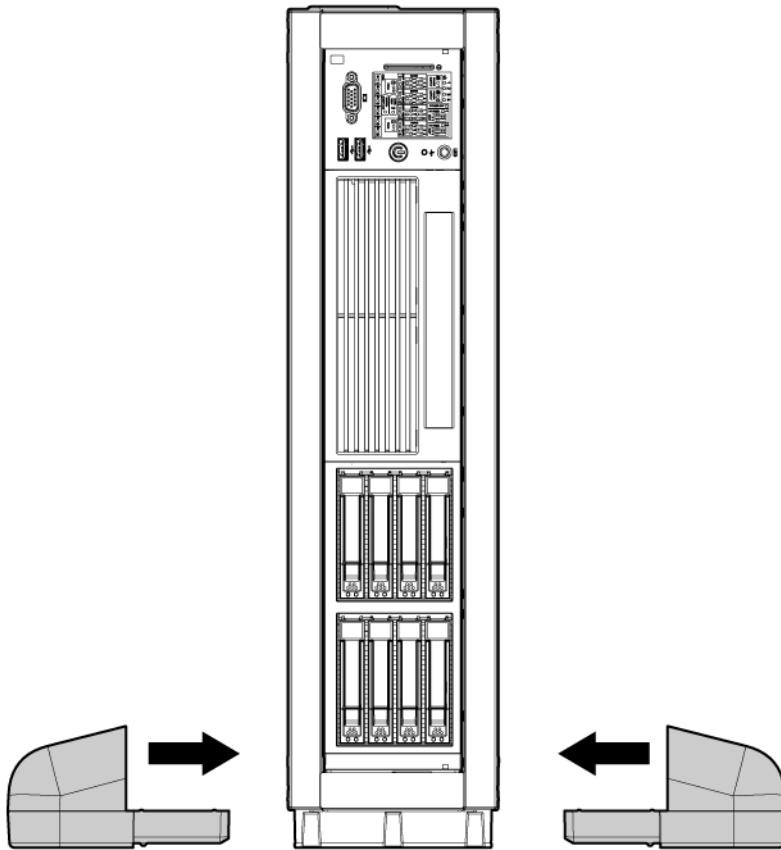


Repeat these steps to install the left side piece.

Attach the pedestal feet

The pedestal feet slide into the slots on the pedestal bottom, two on each side. The feet are all the same and can be mounted in any slot on the bottom piece of the pedestal kit.

Figure 2-7 Attaching the feet

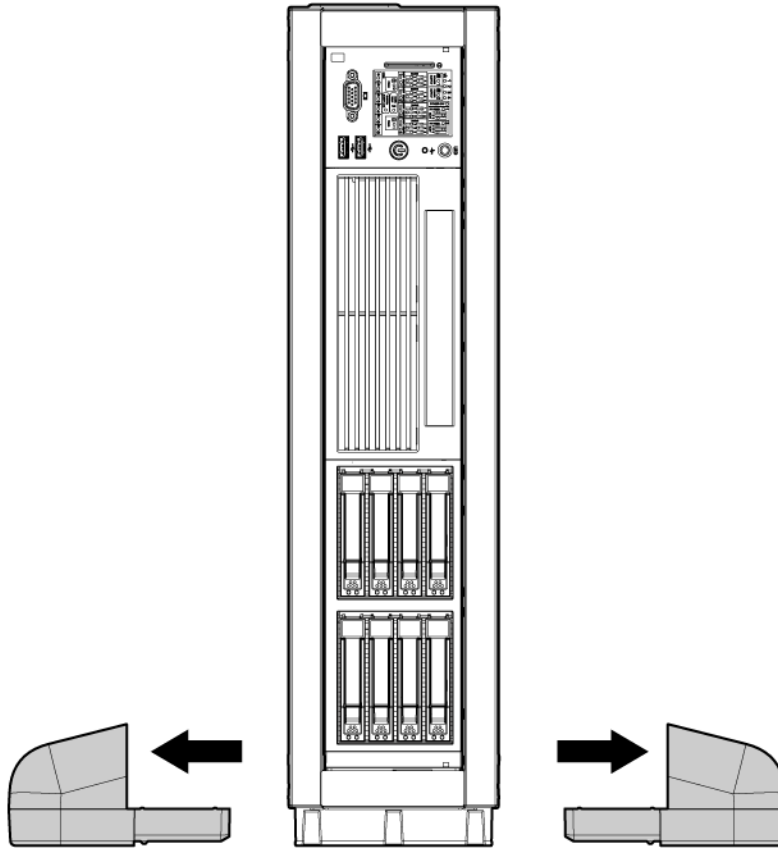


3 Accessing internal components

To access internal components on a pedestal-mounted server:

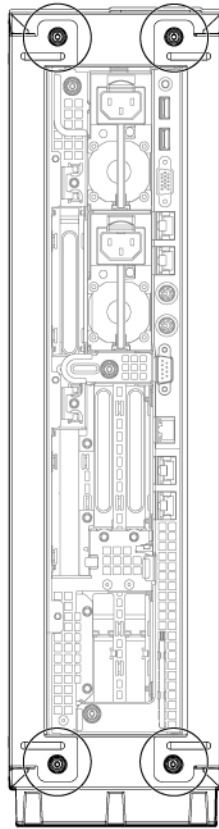
1. Power down the server and remove all cables.
2. Remove the pedestal kit feet.

Figure 3-1 Removing the pedestal kit feet



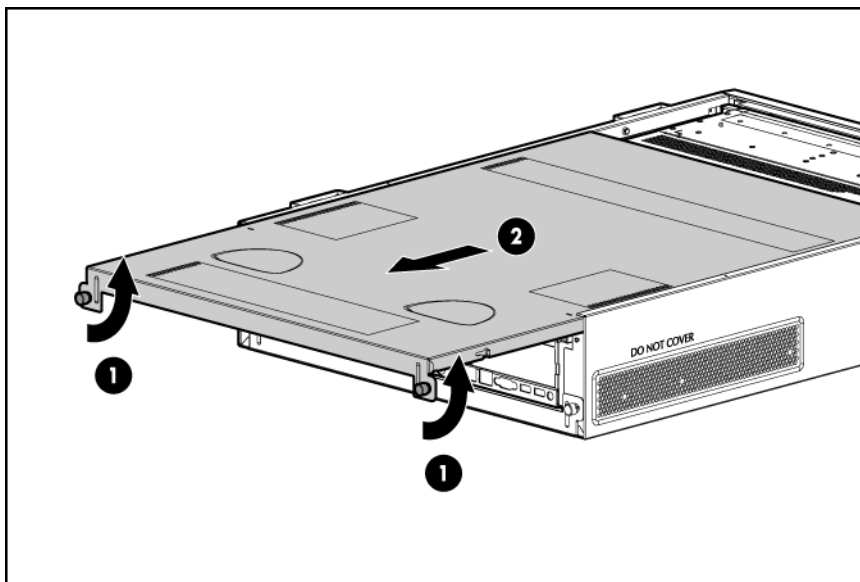
3. Lay the server on the left side (facing the front of the server). The right side of the pedestal kit (with the ventilation holes) should be facing up.
4. Unscrew the captive thumbscrews on the rear of the pedestal kit for the right side pedestal kit piece.

Figure 3-2 Thumbscrew locations



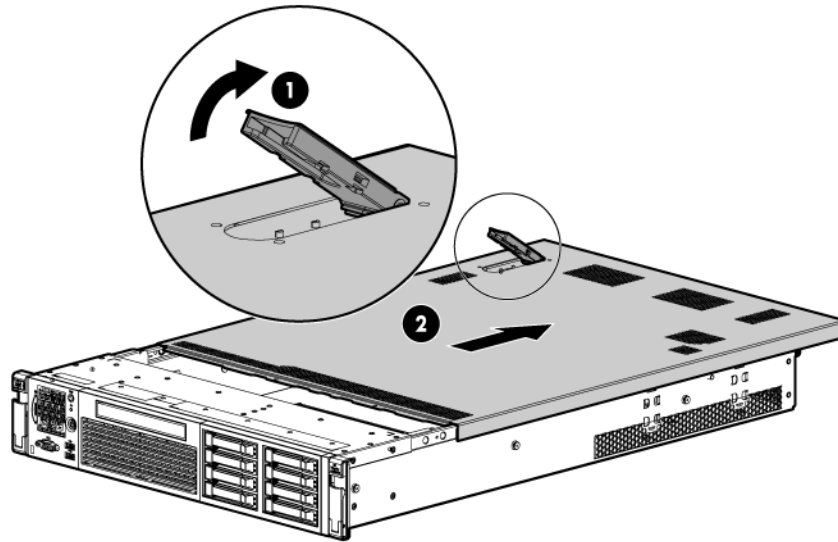
5. Slide the right side pedestal kit piece toward the back of the server, and lift up on the piece to remove it from the pedestal.

Figure 3-3 Removing the side piece



6. Remove the server access panel.

Figure 3-4 Access panel removal



The server is ready for servicing.

Once servicing is complete, do the following to put the pedestal kit back on the server.

1. Close the access panel.
2. Install the right side pedestal piece.
3. Tighten the thumbscrews on the rear of the server.
4. Stand the server up onto the bottom piece of the pedestal kit.
5. Install the pedestal kit feet into the slots on the bottom of the pedestal kit.
6. Connect the cables and restart the server.

4 Removing the server from the pedestal kit

Required tools

No tools are required for disassembling the pedestal kit.

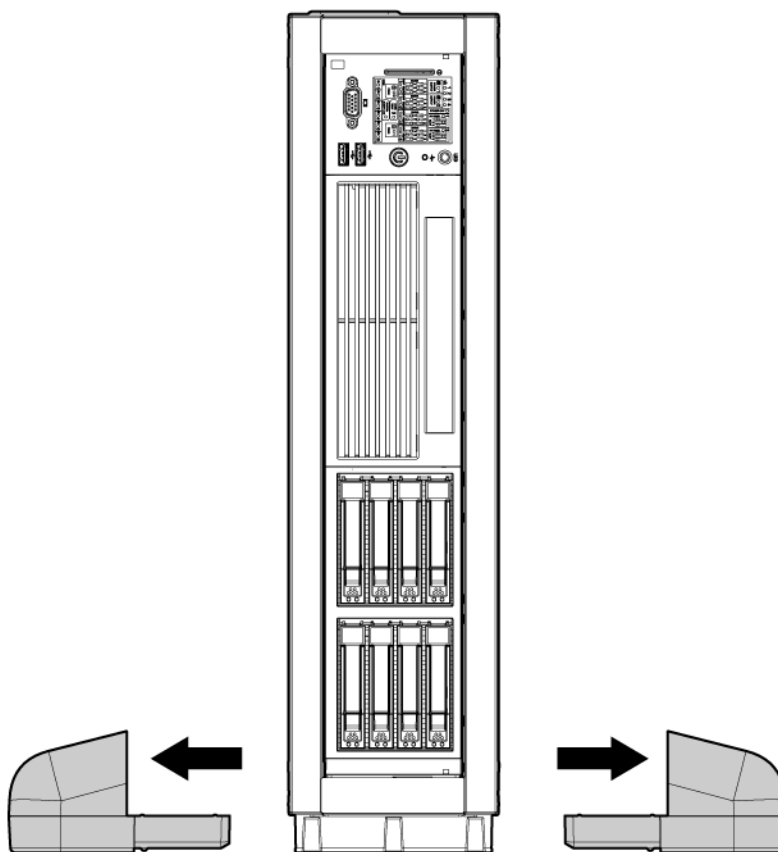
Power off the server and remove cables

1. Power down the server using the instructions provided in the server service guide.
2. Disconnect the power and LAN cables connected to the server.

Removing the pedestal kit

1. Remove pedestal feet.

Figure 4-1 Removing the pedestal kit feet



2. Remove the pedestal side pieces by unscrewing the captive thumbscrews on the rear of the pedestal kit, and sliding the side pedestal kit pieces toward the back of the server.

Figure 4-2 Thumbscrew locations

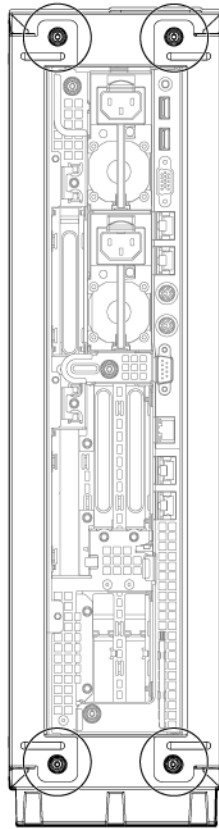
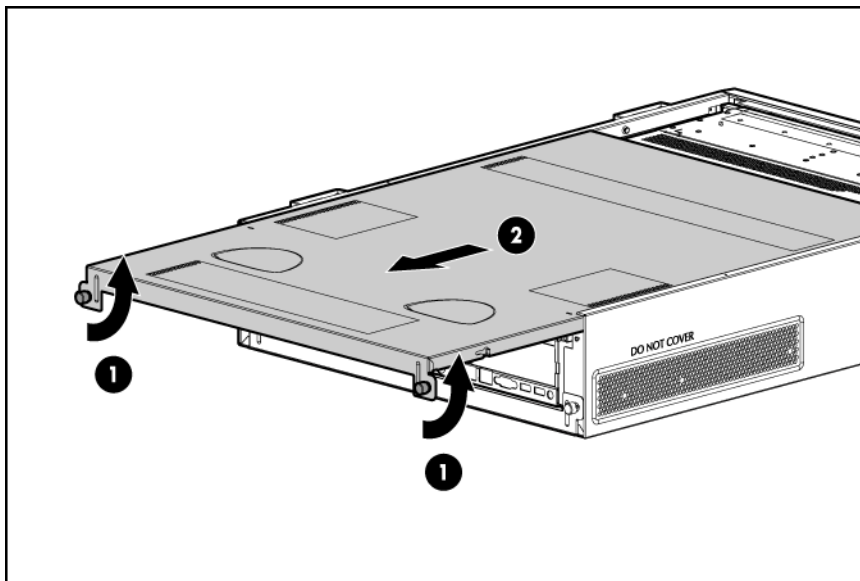
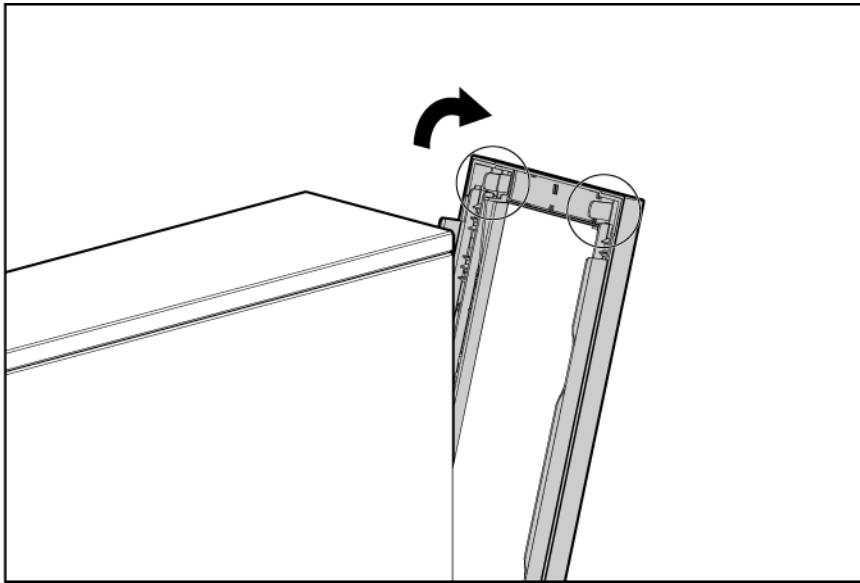


Figure 4-3 Removing the side piece



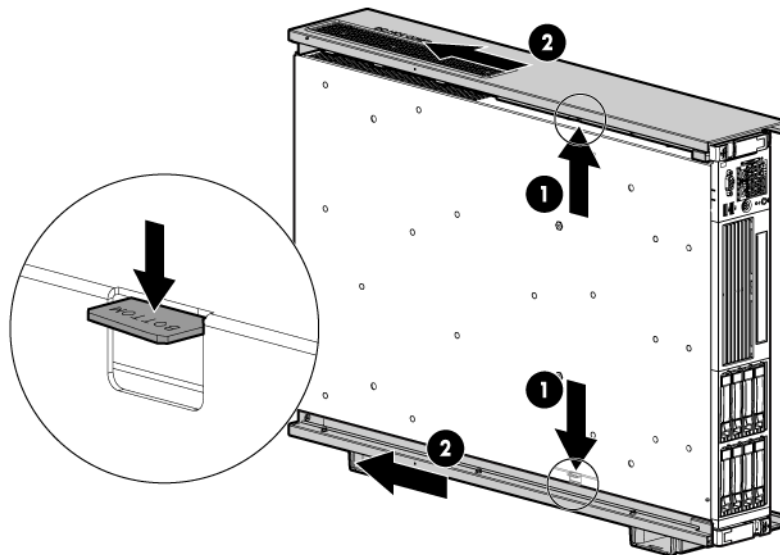
3. Release the locking tabs behind the top corners of the bezel cover and remove the component.

Figure 4-4 Removing the bezel cover



4. Remove the pedestal top piece.
 - a. With the server still in the vertical position, look at the left side of the server (server bottom) to locate the lock release tab.
 - b. Press the lock release tab on the pedestal top piece away from the chassis to unlock the pedestal top piece from the server. See [Figure 4-5](#) for the pedestal top and bottom piece lock release locations.

Figure 4-5 Removing the pedestal top piece



- c. Slide the pedestal top piece toward the back of the server to release it from the server.
 - d. Once the pedestal component has moved about 1/4 inch, the lock releases, and you can release the tab.
 - e. Pull the pedestal kit top piece away from the server.
 - f. Repeat these steps for the bottom piece.

5 Support and other resources

Publishing history

This table lists the publishing history of this document.

| Document Manufacturing Part Number | Publication Date |
|------------------------------------|------------------|
| AM251-9000A | January 2010 |

Related information

The latest versions of these documents, including any updates, are posted at: http://www.hp.com/go/Integrity_Servers-docs and http://www.hp.com/go/Proliant_Servers-docs.

The *Rack System /E User's Manual* can be found at: <http://www.hp.com> under *Enterprise Rack & Power Products*.

Typographic conventions

This document uses the following typographical conventions:

Title The title of a document or a CD.

Emphasis Text that is emphasized.

Bold Text that is strongly emphasized.

WARNING A warning calls attention to important information that if not understood or followed will result in personal injury or nonrecoverable system problems.

CAUTION A caution calls attention to important information that if not understood or followed will result in data loss, data corruption, or damage to hardware or software.

IMPORTANT This alert provides essential information to explain a concept or to complete a task

NOTE A note contains additional information to emphasize or supplement important points of the main text.

Index

A

access panel
removal, 19

B

bezel cover
attaching, 12
removal, 22

E

electricity
grounding, 7
static, 7

I

internal components
accessing, 17

M

metallic particulate contamination, 7

P

pedestal bottom
attaching, 10
removal, 23
pedestal feet
attaching, 15
removal, 17, 21
pedestal side
removal, 18
pedestal sides
attaching, 13
pedestal top
attaching, 10
removal, 23

R

rack
rail removal, 9
required tools
disassembly, 21

S

server
orientation, 10
powering down, 21
side piece
removal, 22
static electricity (*see* electricity, static)

T

thumbscrew
locations, 18, 22
tools required
installation, 9

W

warnings
electrical, 7
metallic particulate contamination, 7
static electricity, 7

Z

zinc whiskers (*see* metallic particulate contamination)



Printed in the US